

Aerospace Structures Division Overview



AN ADVANCED WEAPON AND SPACE SYSTEMS COMPANY

Vision:

**"To Be the
Partner of**

**Choice by Providing
Affordable and Effective
Mission Critical Solutions
on Time, Every Time."**

Mission:

***Provide Best Value By Exceptional
Program Execution With Discriminating
Technology Advantage***



Launch Structures



Aircraft Structures



Apertures

One ATK Aerospace Structures

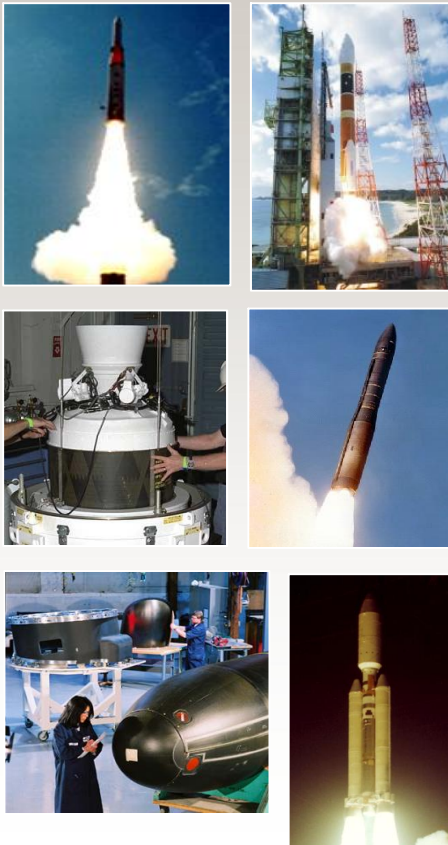
Customer Focused Product Areas



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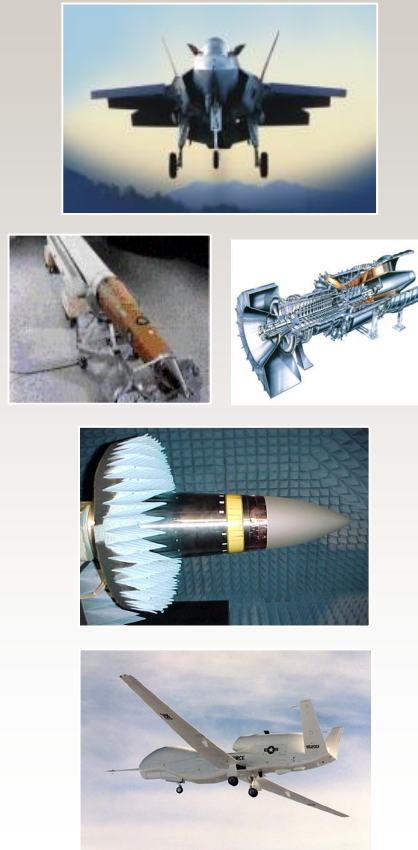
Launch Structures

- Lunch Structures
- Rocket Motor Cases
- TCR Materials



Aircraft

- Aircraft Structures
- Energy Products
- Ceramics

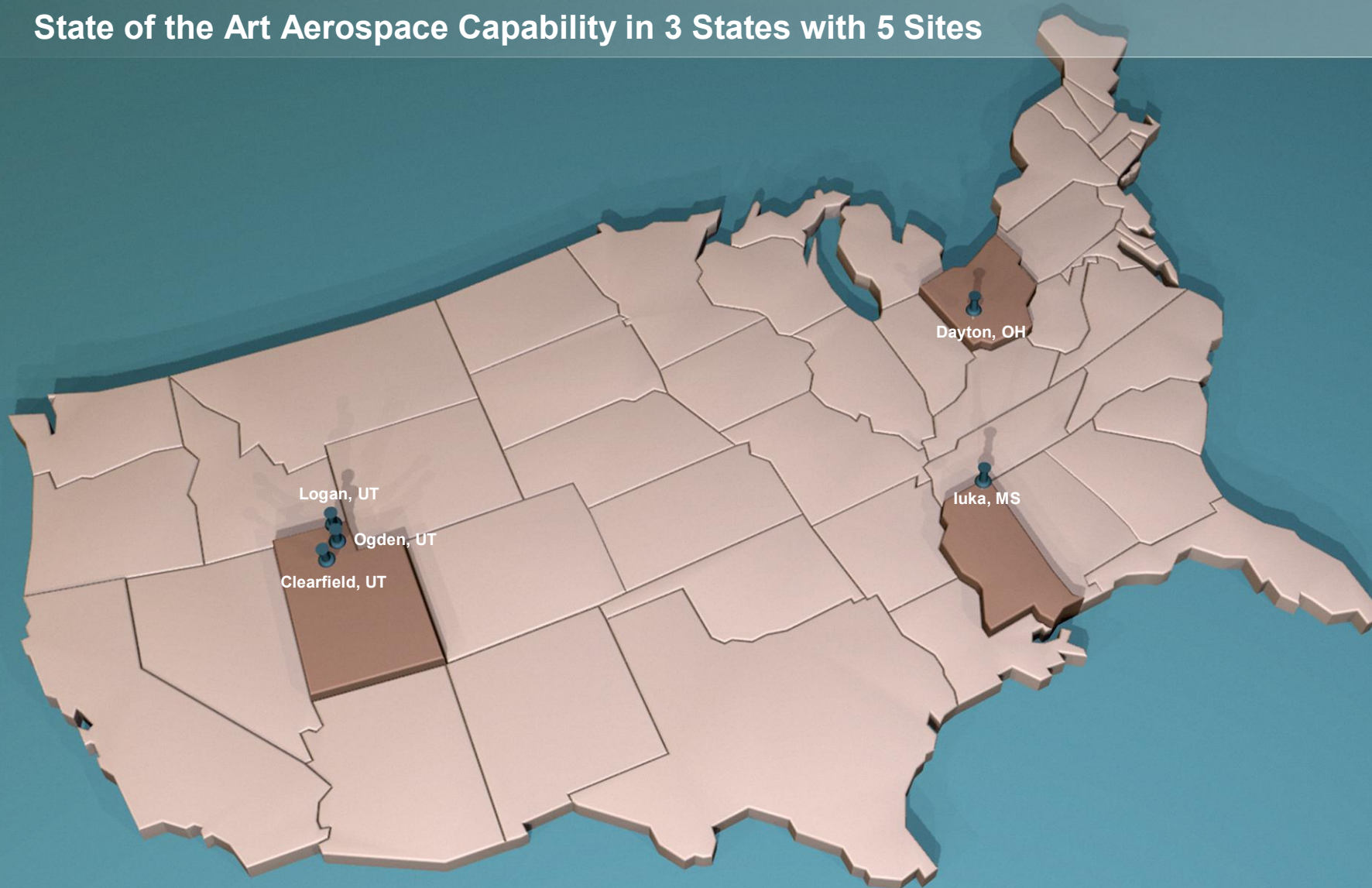


Apertures

- Radomes
- Antennas
- Electronically Scanned Arrays
- Radar Absorbing Materials and Structures
- Rad Hard Structures



State of the Art Aerospace Capability in 3 States with 5 Sites



Company and Capabilities Overview



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622 Employees

657,000 ft² Production Facility

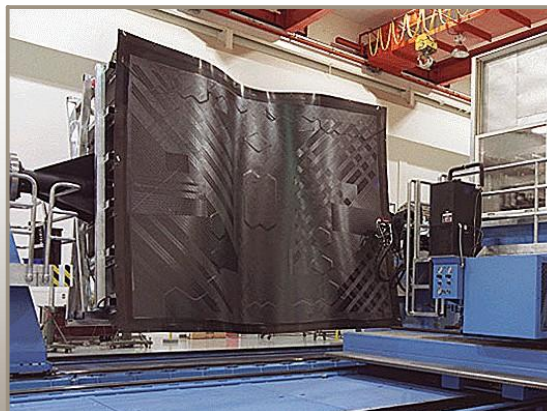
State-of-the-Art Filament Winding and Fiber Placement



ATK Space Systems



Filament Winding



Fiber Placement



**Hand Lay-up
GEM-60 Nose Cone**

ATK has Unparalleled Experience in US Launch Systems



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Glass



Minuteman
(Thrust Termination)



Poseidon (C-3)



Polaris (A-2)



Polaris (A-3)

Kevlar



Pershing II
(Thrust Reversal)



Trident-I (C-4)

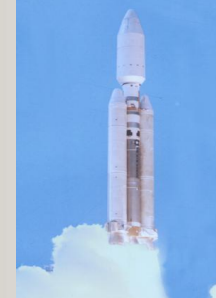


Peacekeeper

Graphite



Small ICBM



Titan IV SRMU



Delta III GEM



Trident-II (D-5)



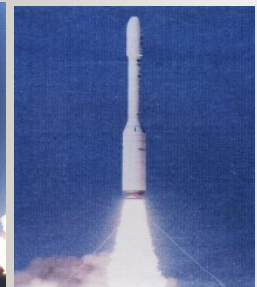
Delta IV GEM



Pegasus



Delta II GEM



Taurus



FWC

Major Areas of ATK Expertise:

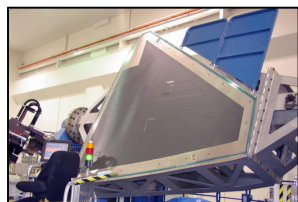
- Structures for aircraft, weapons, missile defense interceptions, and Large composites
- Design and fabrication for frequency response—radomes, antennae and reflectors
- Precision structures
- Automated composites processing
- Missile/launcher structures
- High-temperature composites fabrication and testing
- Unique, organic matrix composite materials
- Directed-energy and high-power microwave technologies
- Rocket motor cases Prototyping
- Testing
- Nondestructive inspection and health monitoring
- Gun-hardened “survivable” composite structures and pressure vessels
- Integrated sensor and data acquisition for surveillance aircraft



F-35 (JSF) Lightning II Wing Skins



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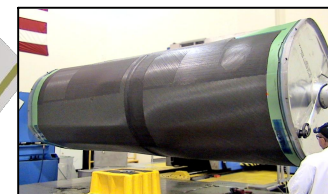


**Upper Wing Skin
(7 Skins)**

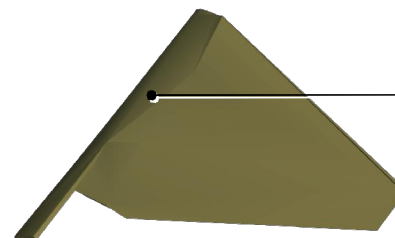
**Upper Wing
Skin Strap**



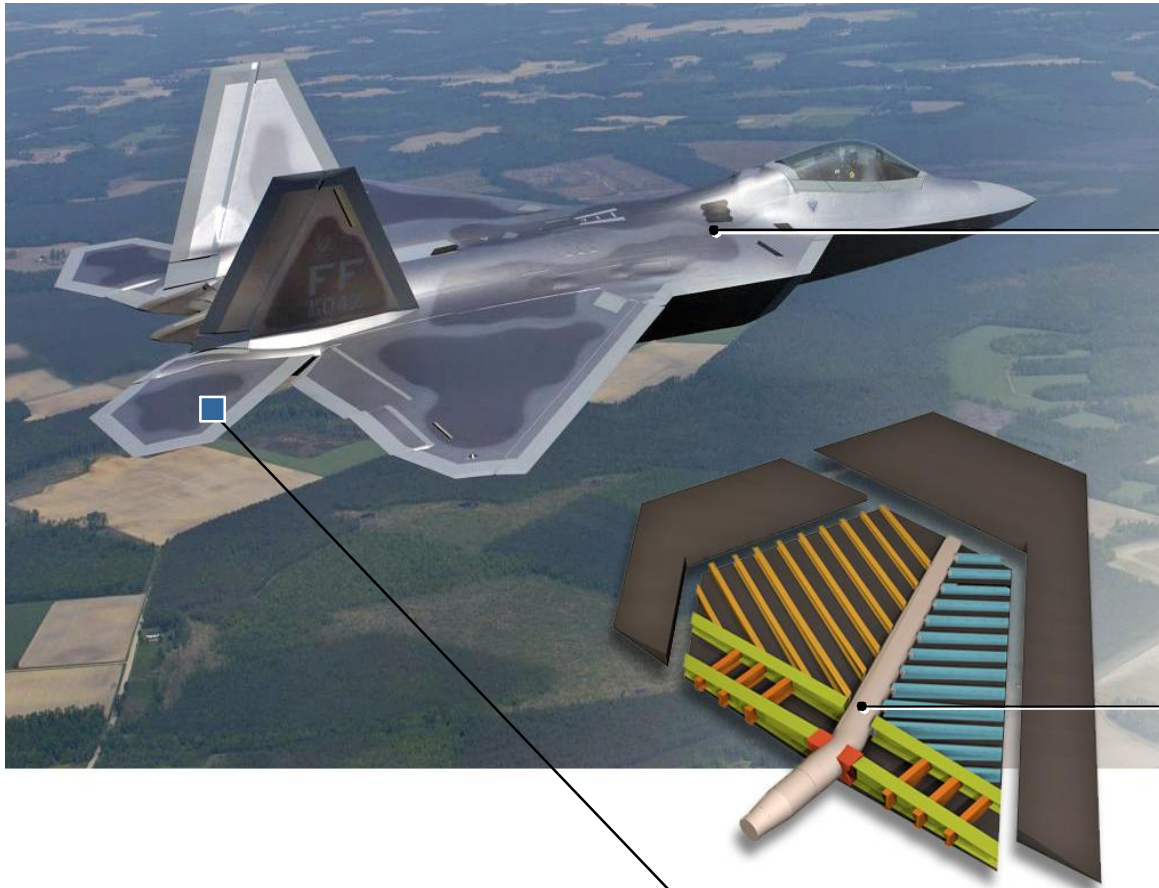
**Engine
Nacelles**



**Lower
Wing Skins**

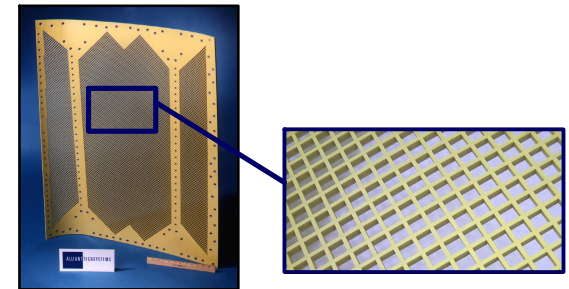


F-22A Raptor Components



■ **Stabilator Components**

■ **By-pass Screens**



■ **Pivot Shaft**



POLLUTION PREVENTION

2007

ATK AeroSpace Structures

Environmental Policy

ATK Aero Space Structures is committed to providing products and services in a manner that minimizes environmental impact. Through a program of environmental management, pollution prevention, continual improvement, and best management practices, we will comply with applicable corporate, customer and environmental regulations to create a safe and healthful workplace for the communities where we live and operate.

BMS-9-2-1-02



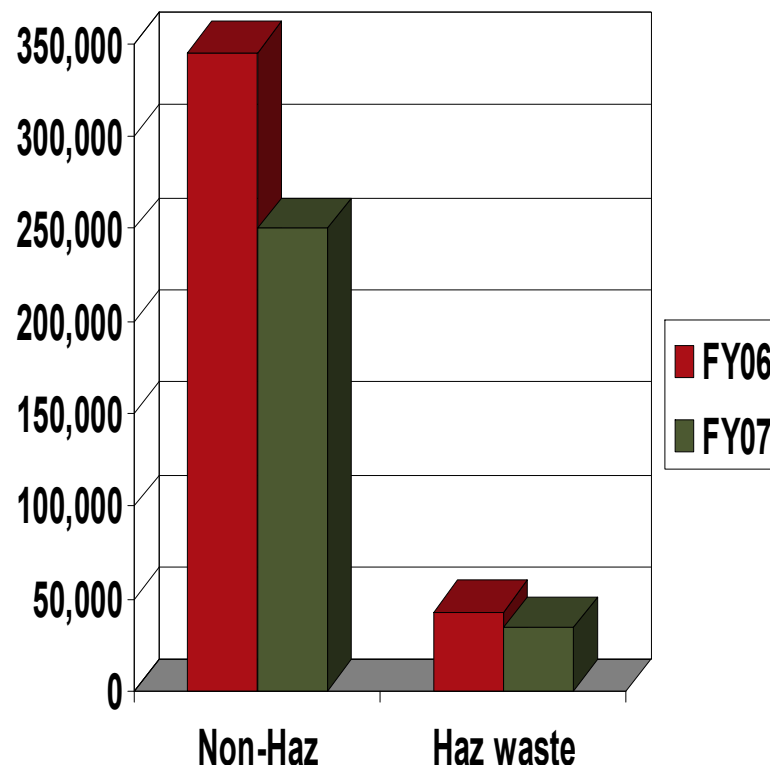
REDUCTION OF WASTE

- Non-Hazardous waste reduction of 95,000 lbs
- Hazardous waste reduction of 9,000 lbs
- JIT ordering of materials for operations.

WASTE REDUCTION

Clearfield Produced and Disposed of Approximately:

- 250,000 lbs of Non-Hazardous Waste
- 34,000 lbs of Hazardous Waste



Processes that Reduced Hazardous waste

1. X-Ray upgrades in Digital imaging systems that were installed we where able to reduce:
2. JIT ordering of material.
3. Reduced the amount of chemicals being ordered.
4. Container size of chemicals.
4. Chemical replacement.

Processes that reduced Non-Hazardous waste

Up-grades to Machining Centers

Improvements were made on Machining Centers MC-2 and MC-4 to perform Wet and Dry Machining; this reduced the amount of Machining coolant being shipped for Disposal

RECYCLED MATERIALS

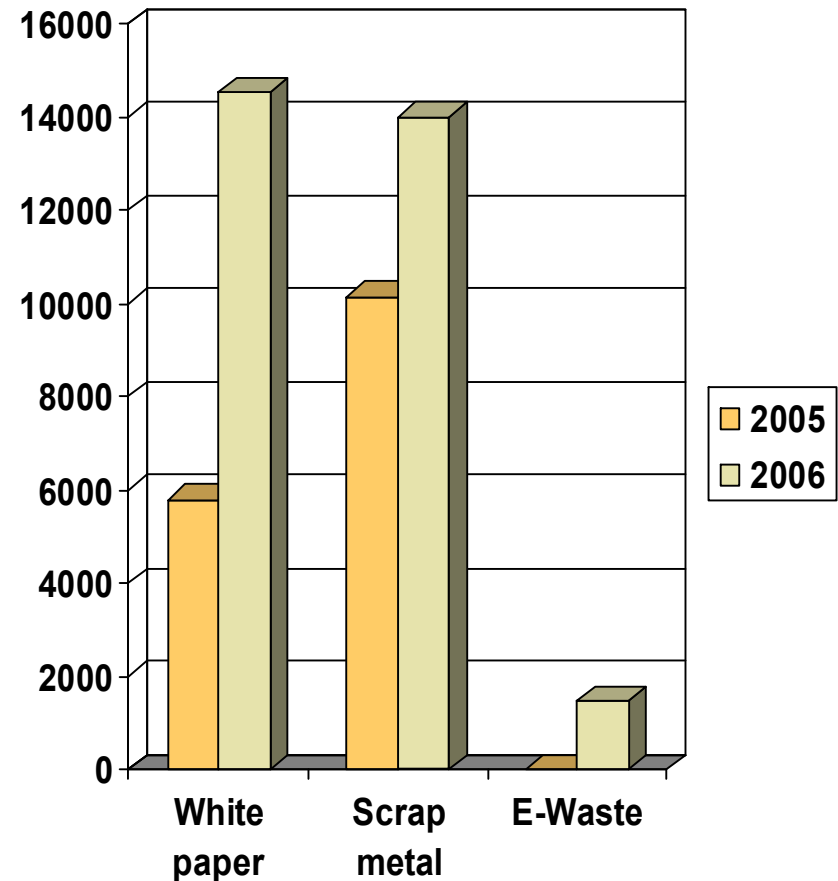
For calendar year 2006 ATK Aerospace Structures recycled 31,000 lbs of materials.

Material includes: White paper, light tubes, aluminum cans, Scrap metal, ink cartridges, rechargeable batteries, cell phones and electronic waste.

RECYCLED MATERIALS

ATK Aerospace Systems -
Clearfield has Generated
Approximately:

- 30,889 lbs Total
Recyclable's Material
- E-Waste is new this year



Energy Saving Overview

- Building B-14 had several areas of 400 watt metal halide fixtures that qualified for energy savings
- There were 127 low bay light fixtures that were changed to save at least 40% of the lighting energy for the low bay areas
- These fixtures now provide whiter light, lower temperatures, lower energy usage and lower operating costs
- Operators are more willing to turn off the lights when they leave the work area because they don't have to wait for the lights to warm up

Existing Lighting

- The existing low bay fixtures were 400 watt metal Halide
- The new fixtures are 228 watt, six tube, T-8 fluorescent with motion detection sensors.
- The estimated capital cost to upgrade the low bay fixtures was \$55,500 plus \$4,500 D&M.

Utah Power Incentive

- Utah Power has a “self directed” program where we do the work and they give us an 80% credit towards the monthly 3% efficiency fee. This amounted to about \$48,000 in credits.
- We also saved about \$9,000 in lower energy costs and about \$550 in lower municipal taxes per year.



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Aerospace Structures Division

PO Box 160433, MS YA15

Clearfield, UT 84016-0433

www.atk.com

